

FIG 4



USER MASTER	SOL MASTER	PACKET	SOL SLAVE	USER SLAVE
	SEND IDENT.REQ (WAIT IDENT.REP)	<--(IDLE)-->	WAIT IDENT.REQ	
		--(IDENT.REQ)--> <--(IDLE)--		
		<--(IDLE)-->	RECEIVE IDENT.REQ (WAIT USER IDENT)	
				SOL_GETIDENTREQ SOL_PUTIDENTREP
			SEND IDENT.REP (WAIT IDENT ACK)	
		--(IDLE)--> <--(IDENT.REP)--		
	RECEIVE IDENT.REP (WAIT USER)	<--(IDLE)-->		
SOL_GETIDENTREP SOL_PUTIDENTACK				
	SEND IDENT.ACK (WAIT IDENT AREP)			
		--(IDENT.ACK)--> <--(IDLE)--		
		<--(IDLE)-->	RECEIVE IDENT.ACK (WAIT USER)	
				SOL_GETIDENTACK SOL_PUTIDENTAREP
			SEND IDENT.AREP (START CONFIG)	
		--(IDLE)--> <--(IDENT.AREP)--		
	WAIT IDENT.AREP TIMER START (START CONFIG.)	(NO TELEGRAMS)		

FIG 5

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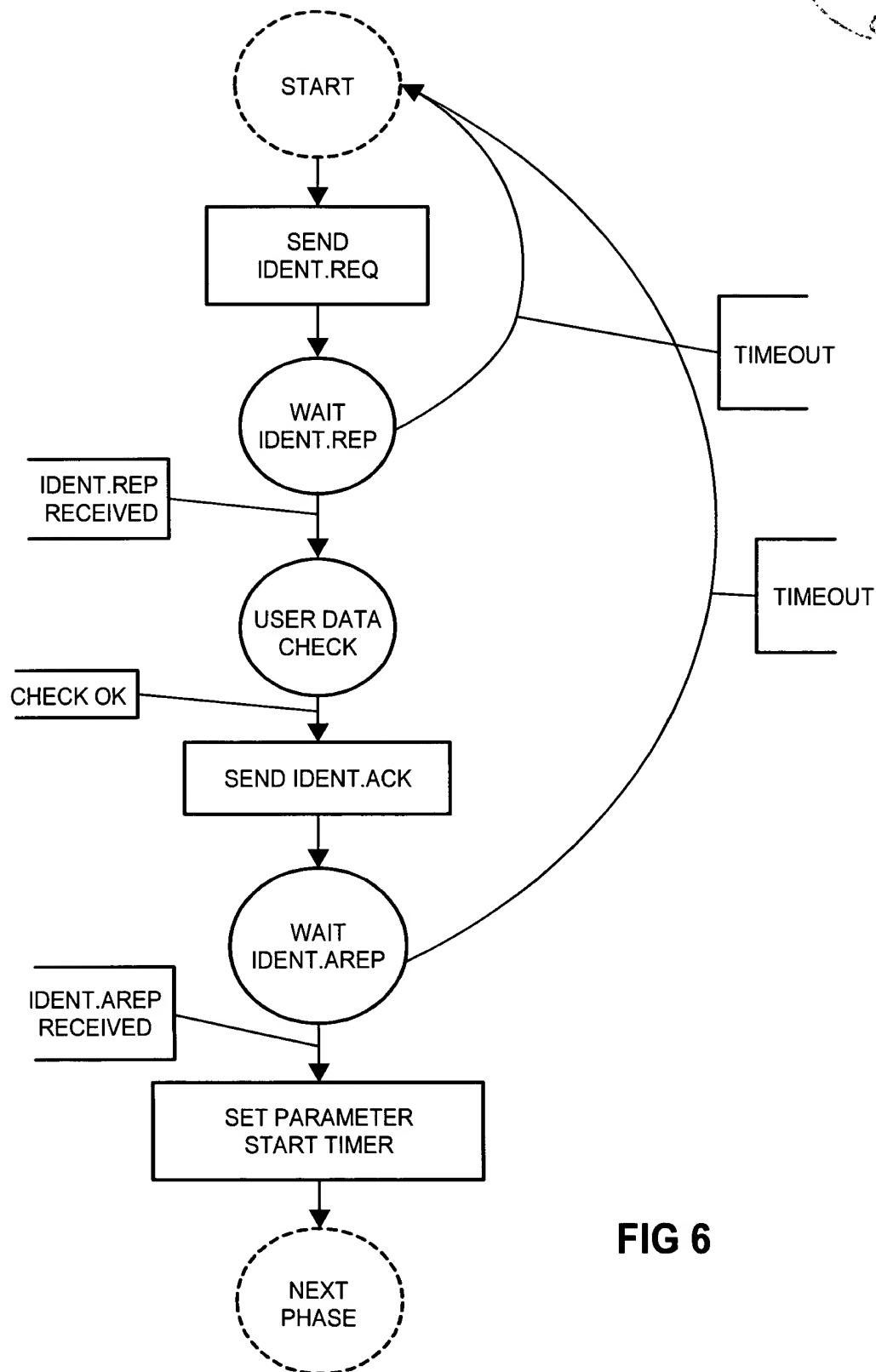


FIG 6

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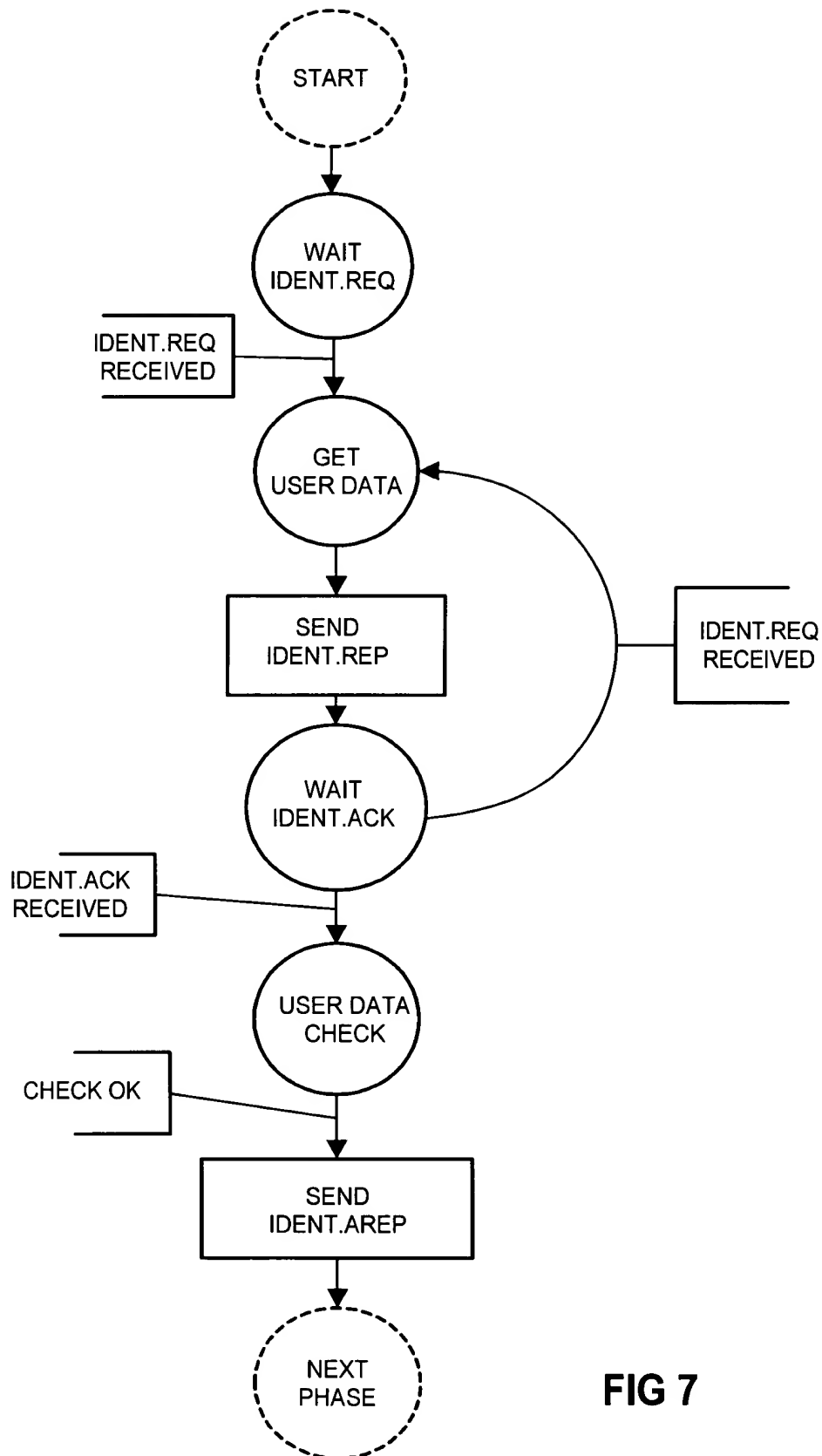
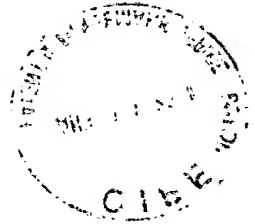


FIG 7



USER MASTER	SOL MASTER	PACKET	SOL SLAVE	USER SLAVE
	TIMER EXPIRED SEND IDLE (WAIT USER CONFIG)	(NO TELEGRAM)	SEND IDLE (WAIT CONFIG.REQ)	
SOL_GETCONFIGBUF SOL_OUTCONFIGREQ		<--(IDLE)-->		
	SEND CONFIG.REQ (WAIT CONFIG.REP)	<--(IDLE)-->		
		--(CONFIG. REQ)--> <--(IDLE)--		
		<--(IDLE)-->	RECEIVE CONFIG.REQ (WAIT USER CONFIG)	
		<--(IDLE)-->		SOL_GETCONFIGREQ SOL_OUTCONFIGREP
		<--(IDLE)-->	SEND CONFIG.REP (WAIT CONFIG ACK)	
		--(IDLE)--> <--(CONFIG. REP)--		
	RECEIVE CONFIG.REP (WAIT USER ACKN.)	<--(IDLE)-->		
SOL_GETCONFIGREP SOL_PUTCONFIGACK		<--(IDLE)-->		
	SEND CONFIG.ACK (WAIT CONFIG.AREP)	<--(IDLE)-->		
		--(CONFIG. ACK)--> <--(IDLE)--		
		<--(IDLE)-->	RECEIVE CONFIG.ACK (START DATA-EX)	
		--(IDLE)--> <--(CONFIG.AREP)--		
	REC CONFIG.AREP TIMER STRT (START DATA-EX)	(NO TELEGRAMS)		

FIG 8

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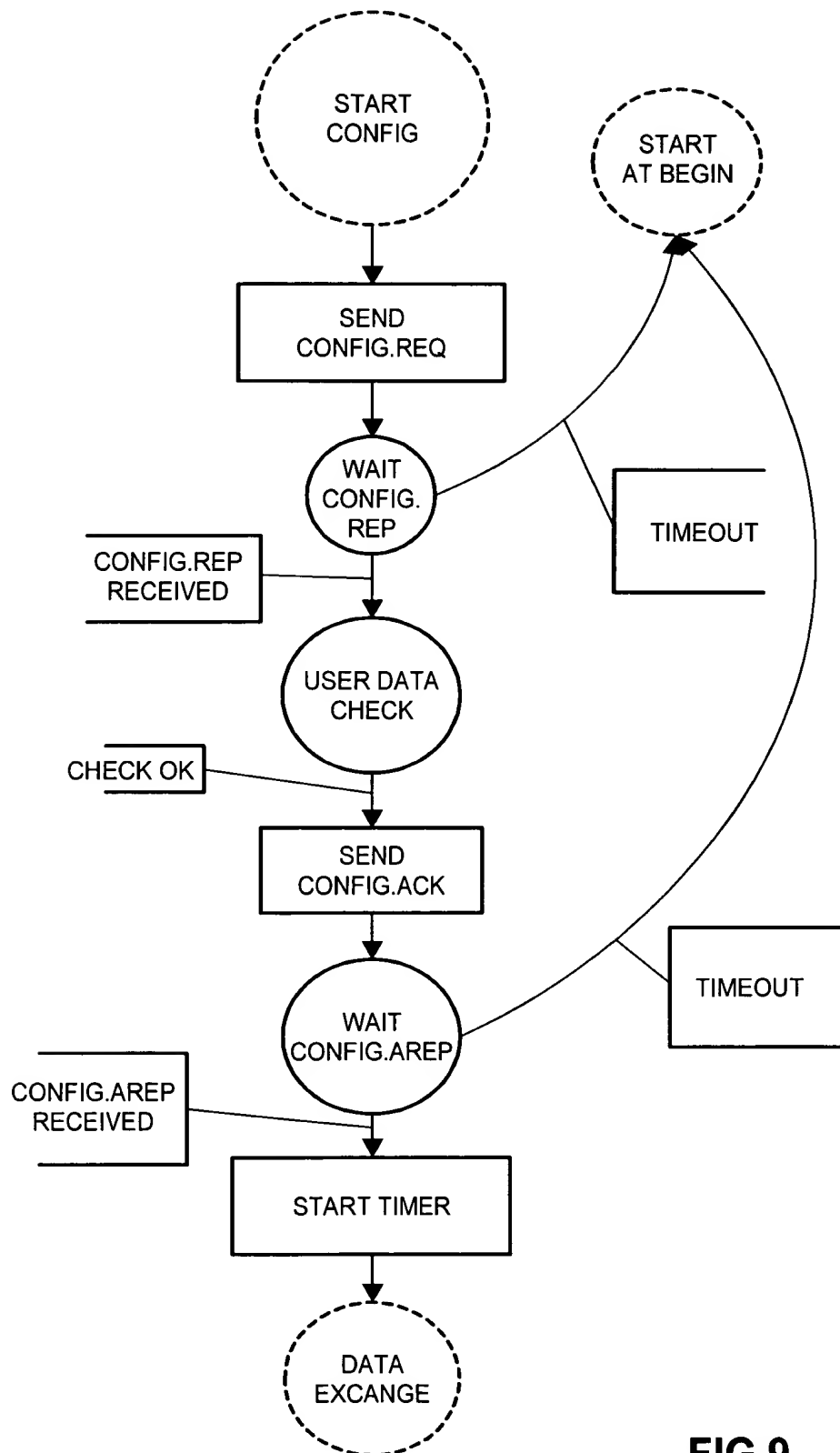


FIG 9

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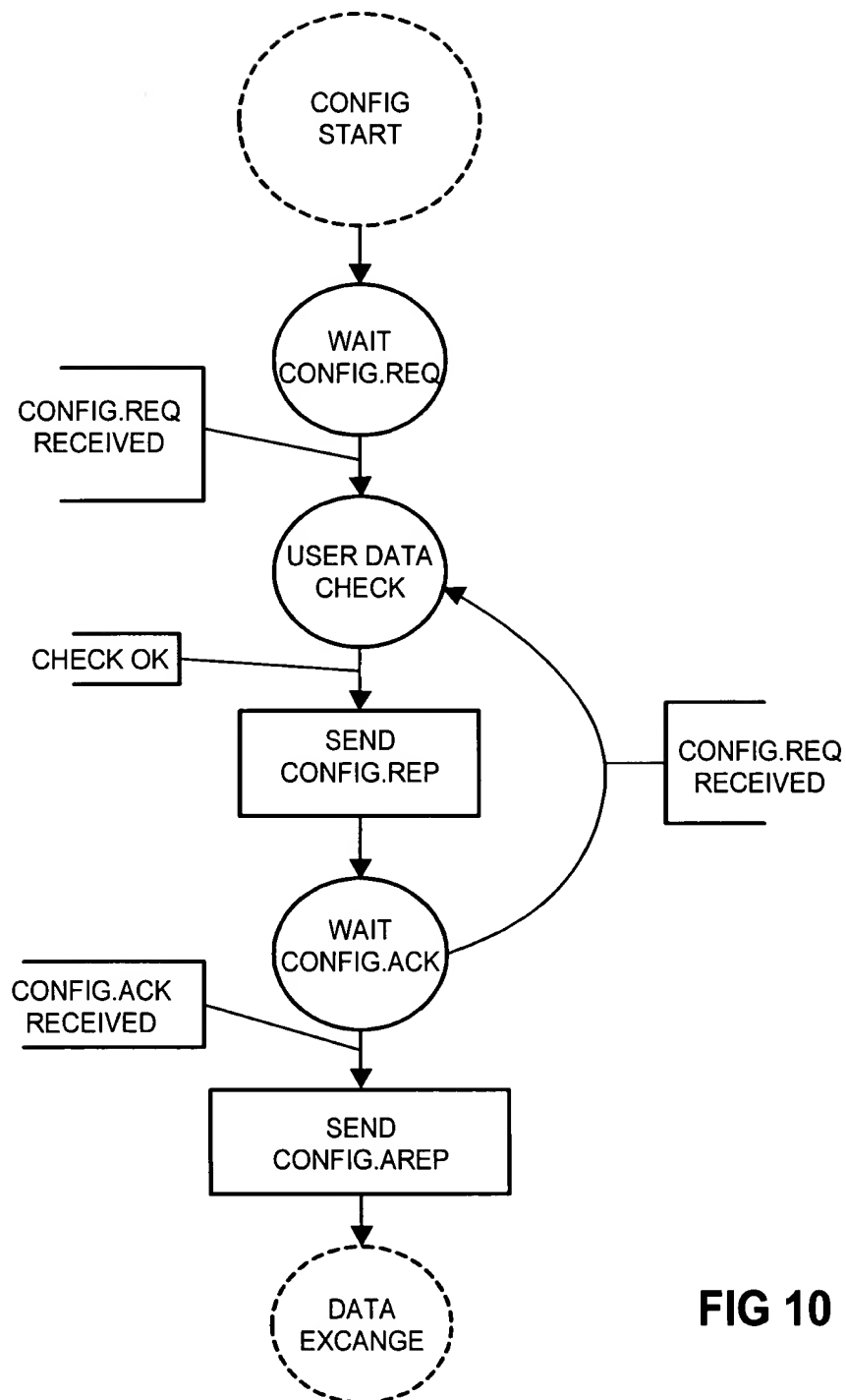


FIG 10

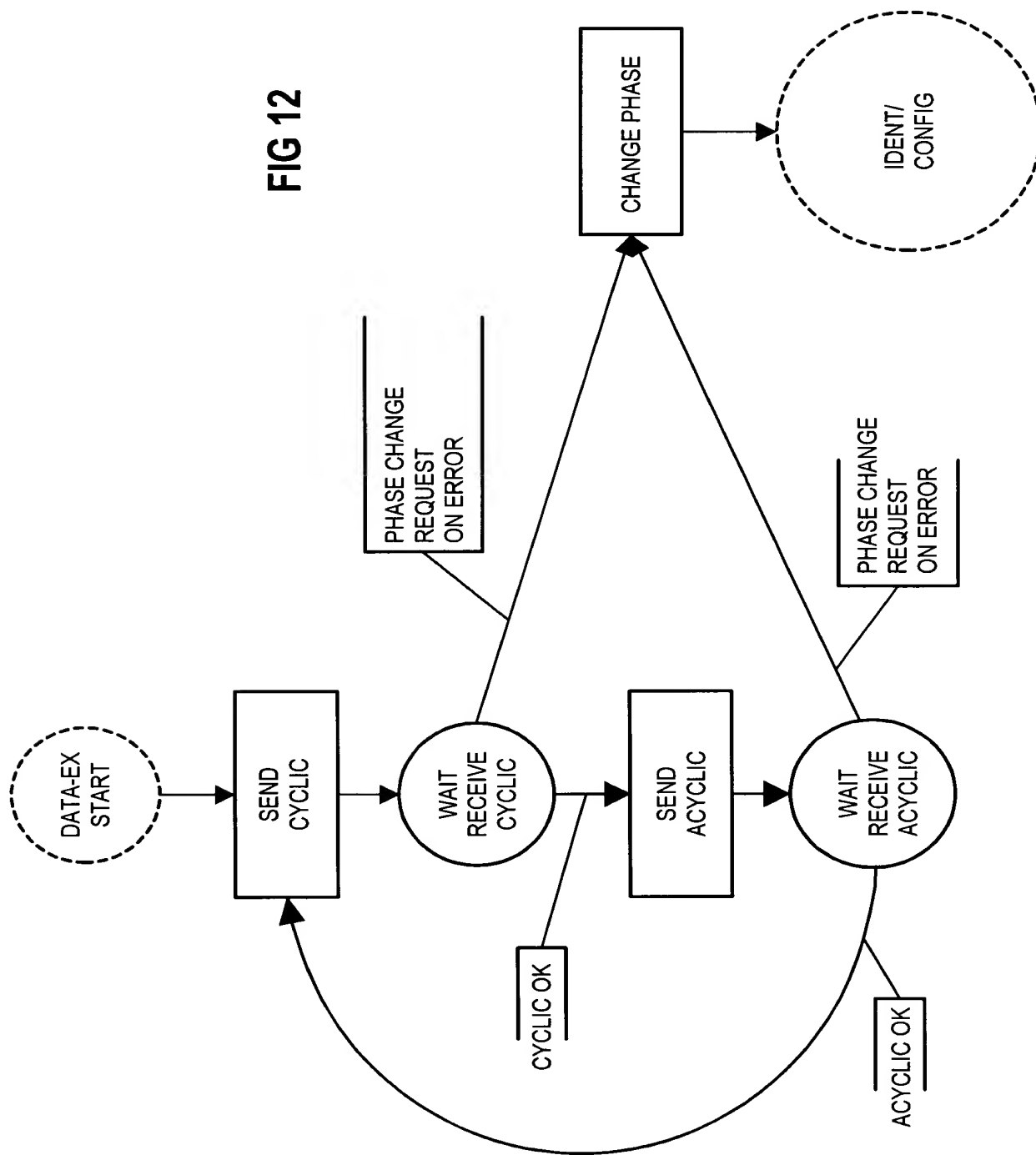


USER MASTER	SOL MASTER	PACKET	SOL SLAVE	USER SLAVE
	TIMER EXPIRED (WAIT USER CYCLIC)		SEND CYCLIC (WAIT RECEIVE CYC)	
SOL-CYCLIC TRANSMIT				
	SEND CYCLIC			
		--(CYC)--> <--(CYC)--		
	RECEIVE CYCLIC TIMER START (SEND ACYCLIC)		RECEIVE CYCLIC SEND ACYCLIC (WAIT RECEIVE ACYC)	
	TIMER EXPIRED SEND ACYCLIC			
		--(ACYC)--> <--(ACYC)--		
	RECEIVE ACYCLIC (WAIT USER CYCLIC)		RECEIVE ACYCLIC SEND CYCLIC (WAIT RECEIVE CYC)	
SOL_CYCLIC TRANSMIT				
	SEND CYCLIC			
		--(CYC)--> <--(CYC)--		
(...)	(...)		(...)	

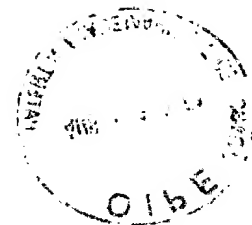
FIG 11



FIG 12



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USER CLIENT	SOL-CLIENT	PACKET	SOL SERVER	USER SERVER
	(WAIT USER REQUEST)	...	(WAIT REQUEST)	
PUT REQUEST		<--(IDLE)-->		
	SEND REQUEST (WAIT REPLY)	<--(IDLE)-->		
		--(REQUEST)--> <--(IDLE)--		
		<--(IDLE)-->	RECEIVE REQUEST (WAIT USER REPLY)	
		<--(IDLE)-->		GET REQUEST PUT REPLY
		<--(IDLE)-->	SEND REPLY (WAIT REQUEST)	
		--(IDLE)--> <--(REPLY)--		
	RECEIVE REPLY (WAIT USER REQUEST)	<--(IDLE)-->		
GET REPLY		...		

FIG 13

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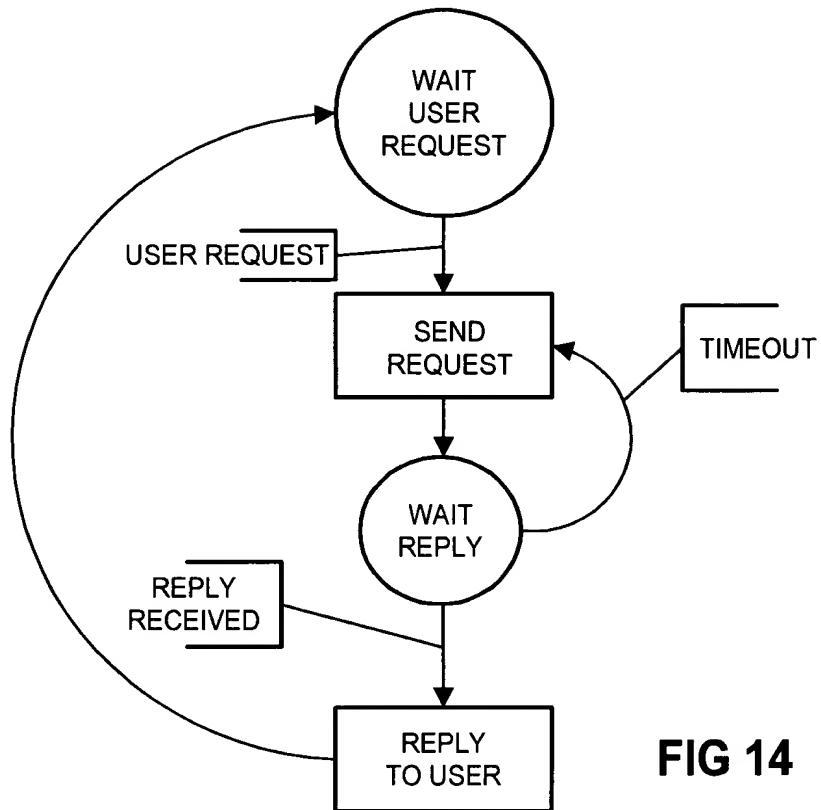


FIG 14

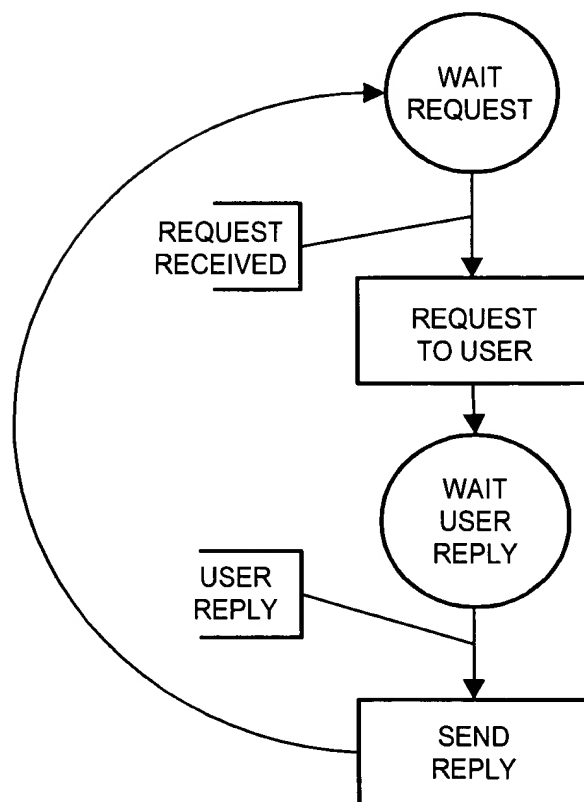


FIG 15

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USER CLIENT	SOL-CLIENT	PACKET	SOL SERVER	USER SERVER
	(WAIT USER REQUEST)	...	(WAIT REQUEST)	
PUT REQ		<--(IDLE)-->		
	PREPARE n PACKETS : n-1...0 SEND REQ n-1 (WAIT ACK n-1)	<--(IDLE)-->		
		--(REQ n-1)--> <--(IDLE)--		
		<--(IDLE)-->	RECEIVE REQ n-1 SEND ACK n-1 (WAIT REQ n-2)	
		--(IDLE)--> <--(ACK n-1)--		
	RECEIVE ACK n-1 SEND RAQ n-2 (WAIT ACK n-2)	<--(IDLE)-->		
	
	RECEIVE ACK 1 SEND REQ 0 (WAIT REPLY)	<--(IDLE)-->		
		--(REQ 0)--> <--(IDLE)--		
		<--(IDLE)-->	RECEIVE REQ 0 (WAIT USER REPLY)	
		<--(IDLE)-->		GET REQ PUT REP
		<--(IDLE)-->	PREPARE m PACKETS: m-1 ...0 SEND REP m-1 (WAIT ACK m-1)	
		<--(IDLE)--> <--(REP m-1)--		
	RECEIVE REP m-1 SEND ACK m-1 (WAIT REP m-2)	<--(IDLE)-->		
		--(ACK m-1)--> <--(IDLE)--		
		<--(IDLE)-->	RECEIVE ACK m-1 SEND REP m-2 (WAIT ACK m-2)	
	
		<--(IDLE)-->	REC. ACK 0 SEND REP -2 (WAIT ACK m-1)	
		<--(IDLE)--> <--(REP 0)--		
	RECEIVE REP 0 (WAIT USER REQUEST)	<--(IDLE)-->		
GET REP		<--(IDLE)-->		

FIG 16



FIG 17

